

Analysis of the Status of Local Clean Energy Policies



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Seminar Series**

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Local Clean Energy Policy Analysis

Background

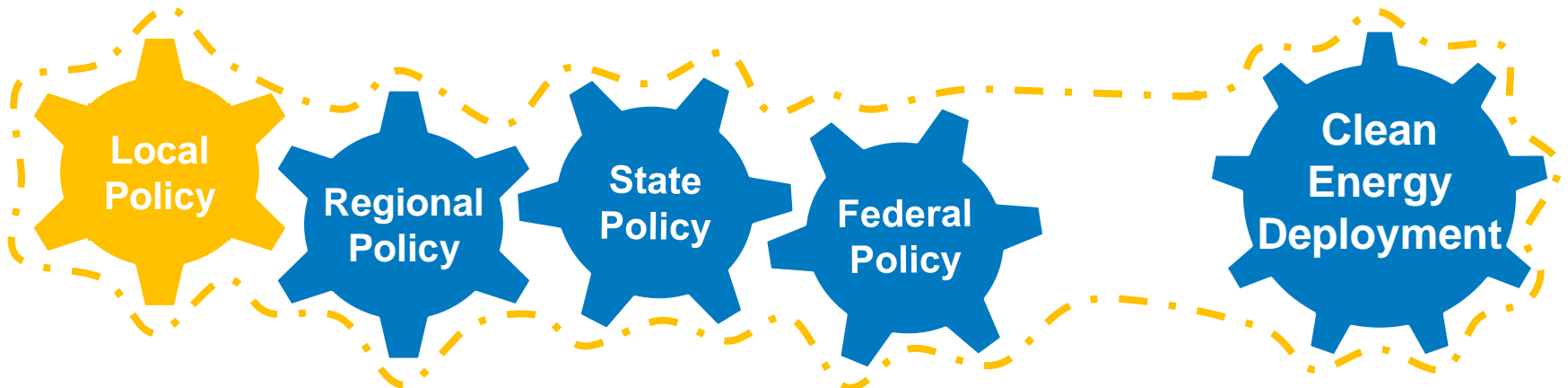
State Policy Environment

Status of Local Policy Action

Conclusions

Background

- Most analysis focuses on state clean energy or local climate change
- No comprehensive analysis of local clean energy policies
- Research goals
 - Understand local policy environment
 - Identify trends
 - Analyze the relationship between state and local policies



Local Clean Energy Policy Analysis

Background

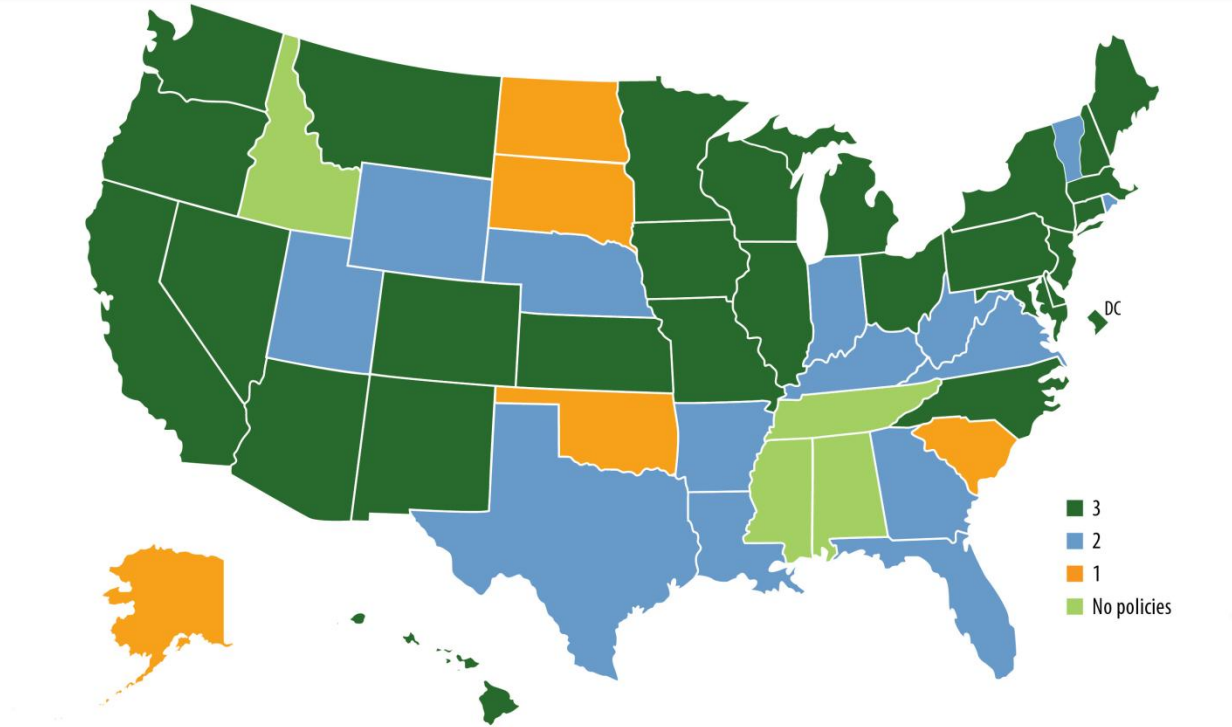
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States Clean Energy Market Transformation Policies

Renewable Energy Market Transformation Policy Implementation (2010)



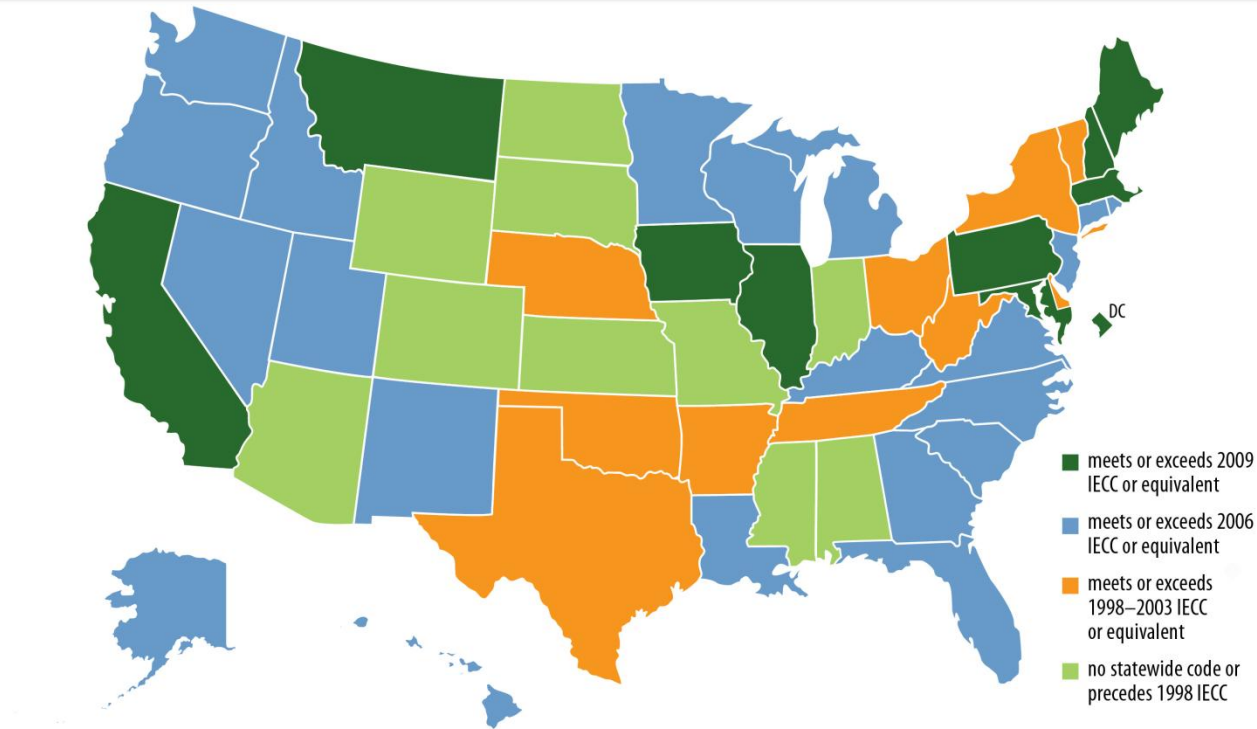
Data Source: DSIRE 2010 (As of February 2010)

Number of States with:	2008	2009	2010
RPS, Interconnection & Net-metering Policies in Place ¹	22	24	28
Most Efficient Residential Building Codes ^{2,3}	20	0	10
Most Efficient Commercial Building Codes ^{2,3}	25	2	13

1 DSIRE; 2 BCAP; 3 These numbers vary by year as more efficient codes are designed

States Clean Energy Market Transformation Policies

Residential Building Code Implementation (2010)



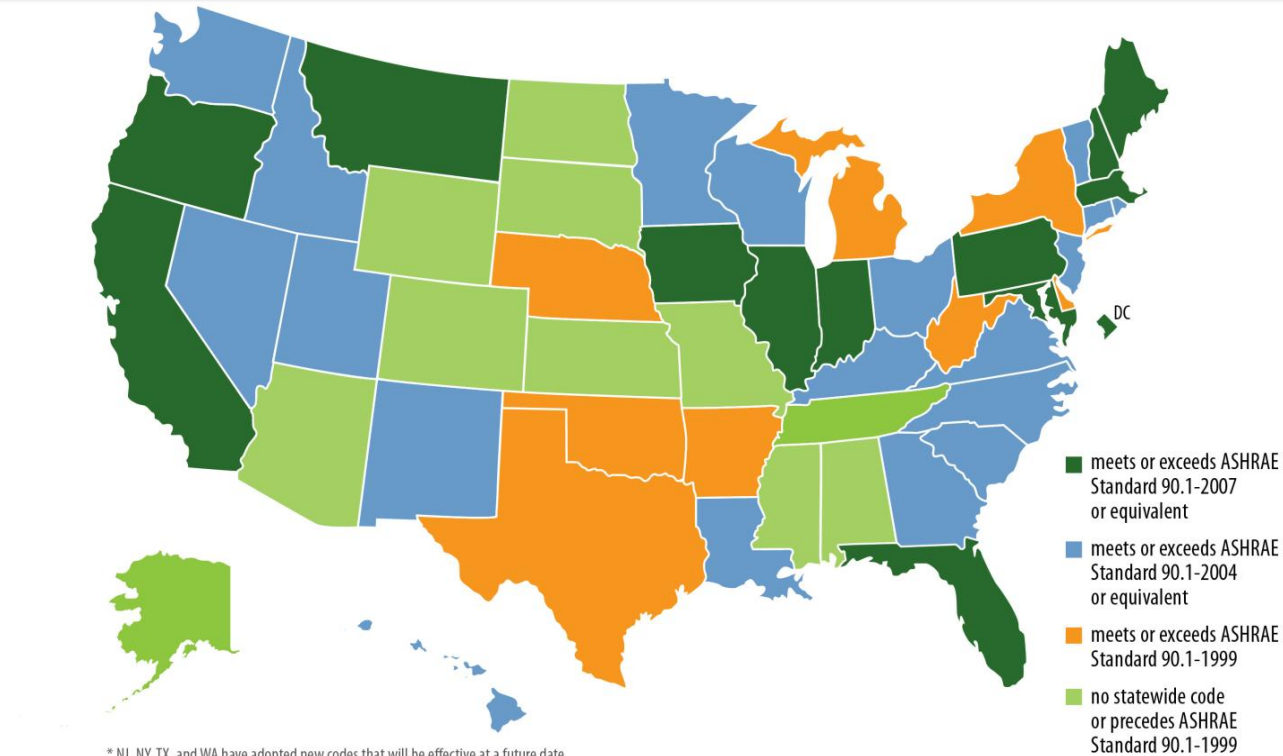
* NJ, NY, TX, and WA have adopted new codes that will be effective at a future date.

Number of States with:	2008	2009	2010
RPS, Interconnection & Net-metering Policies in Place ¹	22	24	28
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States Clean Energy Market Transformation Policies

Commercial Building Code Implementation (2010)



Number of States with:	2008	2009	2010
RPS, Interconnection & Net-metering Policies in Place ¹	22	24	28
Most Efficient Residential Building Codes ^{2,3}	20	0	10
Most Efficient Commercial Building Codes ^{2,3}	25	2	13

¹ DSIRE; ² BCAP; ³ These numbers vary by year as more efficient codes are designed

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Why Local Policy

Benefits

- Tailor policies to meet unique local needs and goals
- Greater opportunities for policy experimentation
- Frame policy based on local community's values
- Opportunities for addressing social acceptance issues

Challenges

- Patchwork regulatory environment leads to increased administrative burden on industry
- Potential redundant enforcement requirements
- Cross-boundary pollution issues

Data on Local Clean Energy Policy

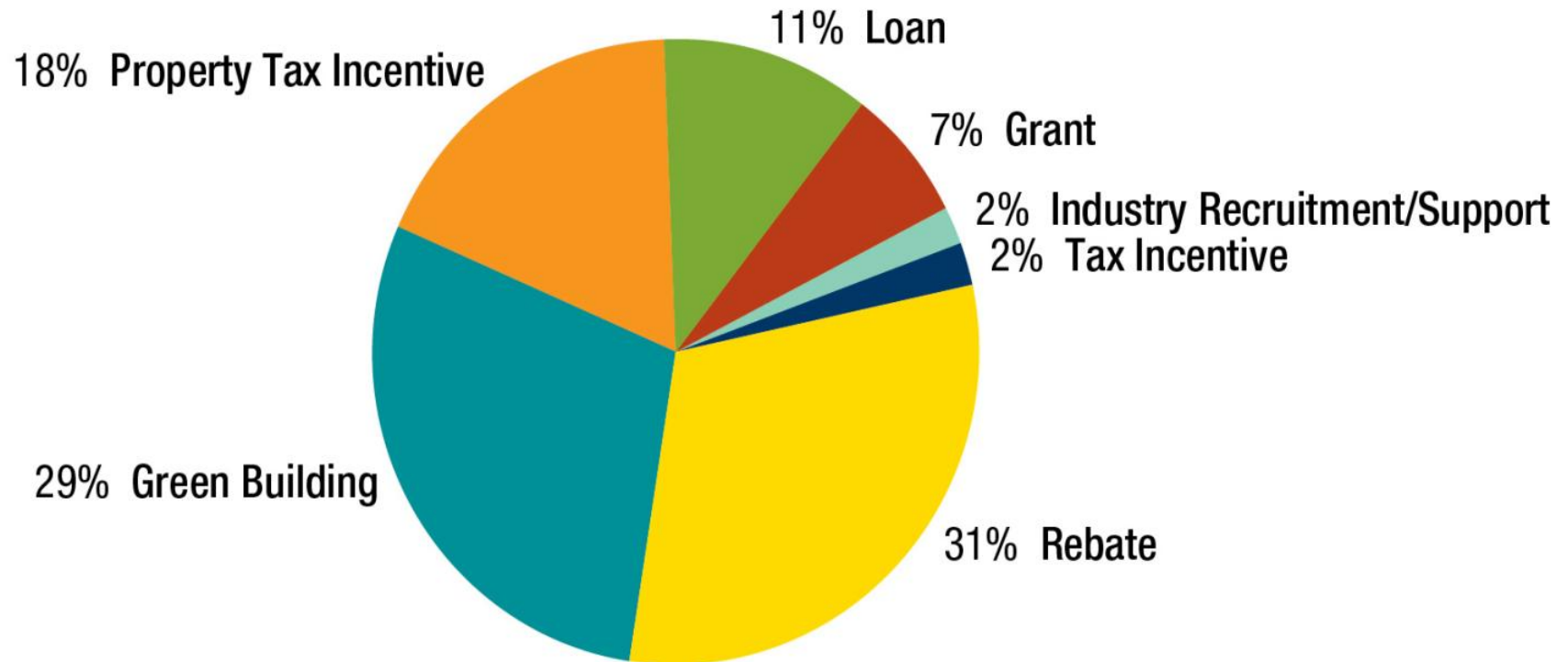
- Unfortunately, not much...
- Database of State Incentives for Renewables & Efficiency
 - ~ 2,600 federal, state, utility and local policies
 - ~ 160 local clean energy policies



Graphic source: Joe McLaren <http://www.flickr.com/photos/joemclaren/3696737717/sizes/s/>

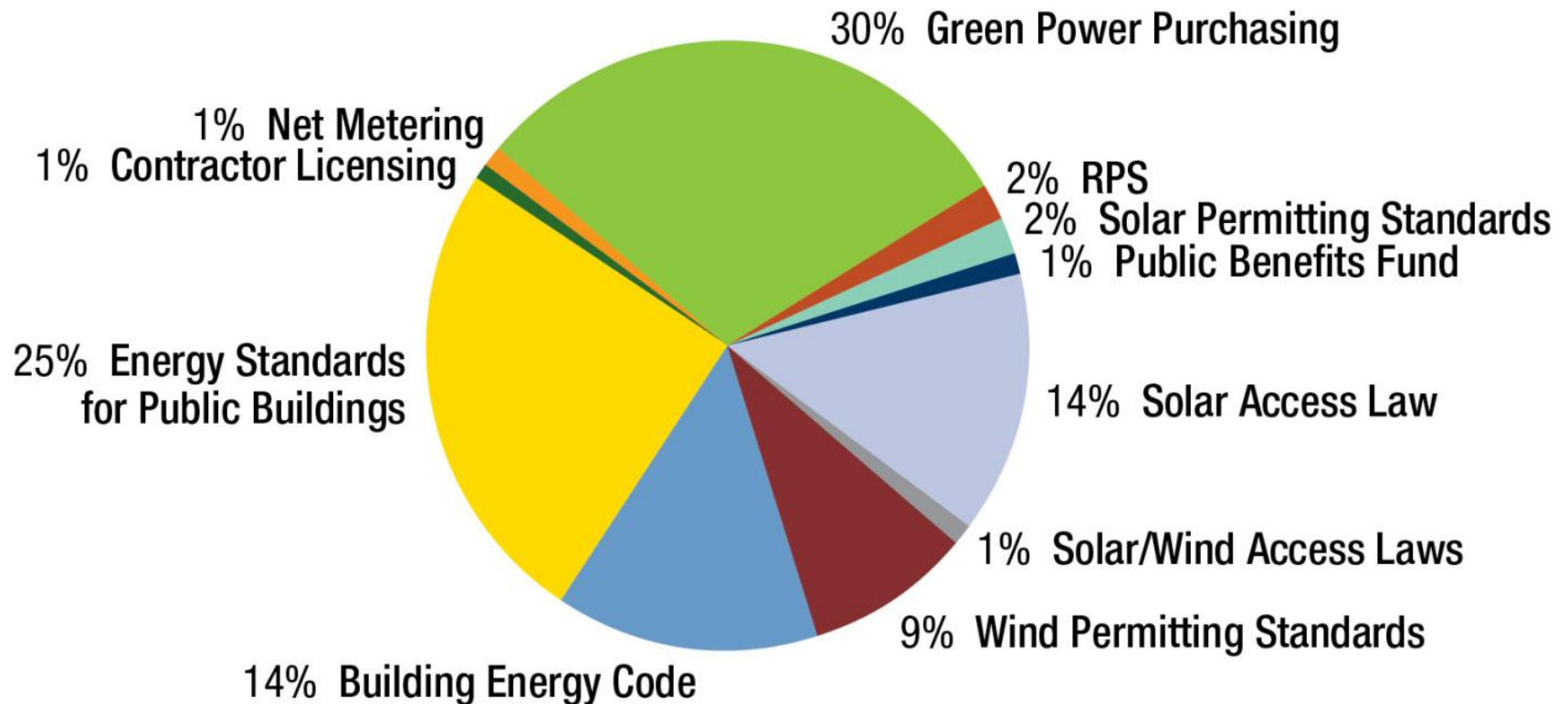
Current Local Policies

Financial Incentives (2010)



Current Local Policies

Rules, Regulations, and Policies (2010)



Local & State Policy Influences

- Localities implementing clean energy policies tend to be in states that have implemented RE market transformation policies
- Signatories to the US Mayors Climate Protection Agreement tend to be in states that have implemented RE market transformation policies

	Percentage of Local Policies in States with:	
	RPS, Net-metering, and Interconnection in Place 2008–2010	The Most Energy Efficient Building Code in 2010
Financial Incentives	75%	38%
Rules, Regulations, and Policies	65%	27%

Local Government Questionnaire

Local clean energy policy is locally driven.

Clean energy is framed as a means to reduced energy costs and GHG emissions.

Interaction between localities and states varies greatly.

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Conclusions & Next Steps

Conclusions

- Local governments are taking action, but it's not necessarily coordinated with state actions
- There is not a comprehensive database of local policy activities
- Local governments that have implemented clean energy policies tend to be in states that have implemented clean energy market transformation policies

Potential Next Steps

- Analyze the difference between localities in “home rule” states and other states
- Determine how local policies impact state policy implementation and vice versa
- Research how the policy implementation in one community impact policy adoption in neighboring communities

Thank You!

Clean Energy Policy Analyses (CEPA)

www.nrel.gov/cepa

National-Regional-State-Local

CEPA is a DOE-EERE Weatherization and Intergovernmental Office funded project designed and implemented at the National Renewable Energy Laboratory

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